Professional On-Line & Line-Interactive UPS Solutions

True Double Conversion 1.0kVA - 20kVA & 30kVA - 800kVA

Output Power Factor 0.9 - Rack/Tower 2 in 1 Design - LCD Display - Perfect Battery Pack

IndusPower Online UPS Systems

40kVA/60kVA/80kVA with battery bank solution, 3-Phase Input / 3-Phase Output

Induspower Series, applied with state-of-the-art PWM-transformerless technology, can easily adapt to all kinds of diverse and complicated loads, such as the non-linear systems (IT systems), strongly inductive or capacitive loads, discharge lamps, and induction motors. It is designed in terms of criteria of maximum efficiency and energy savings with highly compact format. Each unit also has a wide range of communication possibilities and a large variety of options to fill out customers' diverse inquiries. To facilitate expansion easily, this unit can be set up in parallel-redundant systems without any need for additional hardware in the near future.

Features & Advantages

- Online double conversion technology with DSP control
- Advanced control with Adaptive Feed Forward Cancellation (AFC) technology for very low harmonic distortion
- Very low input current distortion (THDi < 1%)
- Input power factor 0.99 at 10% load
- Output efficiency up to 95%
- Space-saving compact design
- Over 60% materials recyclable
- Front access makes maintenance and replacement easily
- Highly flexibility in single phase/ three-phase set-UPS
- Parallel redundant operation with up to 4 units
- Variety of communications and options available
- Remaining backup time calculation

Induspower Series
40 / 60 / 80 kVA

Battery Bank

Battery Bank	Size (mm)	Battery Capacity	Battery Brand
BB-744/18T	1150 x 470 x 1190	744V / 18Ah	Yuasa
BB-744/26T	780 x 880 x 1190	744V / 26Ah	Yuasa
BB-744/65T	1500 x 900 x 1370	744V / 65Ah	Yuasa
BB-744/100T	1500 x 900 x 1370	744V / 100Ah	Yuasa

Backup Time Table

UPS	+ Battery Bank Capacity	Bacup Tim (min)		Battery Brand
		100% Load	75% Load	
Induspower IN-3340TL Tower 40.0kVA	+ 1 x BB-744/18T - 744V/18Ah	9,5	17,1	Yuasa
	+ 1 x BB-744/38T - 744V/38Ah	33	47	Yuasa
	+ 1 x BB-744/65T - 744V/65Ah	61	80,5	Yuasa
	+ 1 x BB-744/100T - 744V/100Ah	93,5	130	Yuasa
Induspower IN-3360TL Tower 60.0kVA	+ 1 x BB-744/26T - 744V/26Ah	9,4	14	Yuasa
	+ 1 x BB-744/38T - 744V/38Ah	15,9	23	Yuasa
	+ 1 x BB-744/65T - 744V/65Ah	26,6	38	Yuasa
	+ 1 x BB-744/100T - 744V/100Ah	61	87	Yuasa
Induspower IN-3380TL Tower 80.0kVA	+ 1 x BB-744/26T - 744V/26Ah	6	9,4	Yuasa
	+ 1 x BB-744/38T - 744V/38Ah	9,3	15,2	Yuasa
	+ 1 x BB-744/65T - 744V/65Ah	18,2	25	Yuasa
	+ 1 x BB-744/100T - 744V/100Ah	27,1	41	Yuasa

P	Model	kVA	Datasheet	Manual	SNMP Card	Software	Inquiry
1	IN-3340-TL	40.0 kVA					
2	IN-3360-TL	60.0 kVA	PDF	PDF	Go to SNMP	Go to Software	To join FSP
3	IN-3380-TL	80.0 kVA					

Specification

Model	IN-3340-TL	IN-3360-TL	IN-3380-TL
Phase		3 phase in / 3 phase out	
Capacity	40.0 kVA / 32kW	60.0 kVA / 48kW	80.0 kVA / 64kW

Input

Nominal Voltage		3x 400V (3Ph + N)	
Acceptable Voltage Range		+15% / -20%	
Frequency Range		50/60Hz ± 5%	
Total Harmonic Distortion (THD)	< 1.5% @ 100% load < 2.5% @ 50% load < 6.5% @ 10% load	< 1.0% @ 100% load < 2.0% @ 10% load < 5.0% @ 50% load	< 1.5% @ 100% load < 2.0% @ 50% load < 6.0% @ 10% load
Current Limitation		High overload: PFC Limit (discharging batteries)50 / 60 Hz ±5 %	
Power Factor		1.0	

Inverter

Nominal Voltage	3x400 VAC (3Ph + N) 208/220/230/240VAC	
Precision	Stationary: ±1% ; Transitory: ±2% (load variations 100-0-100%)	
Frequency	50/60 Hz synchronised ±4 % With mains absent ±0.05%	
Max. Synchronisation Speed	±10 Hz/s	
Waveform	Pure Sinewave	
Total Harmonic Distortion (THD)	≦ 0.5% THD (Linear Load) ; ≦ 1.5% THD (Non-linear Load)	
Phase Displacement	120º ±1% (balanced load) ; 120º ±2% (imbalances 50% of the load)	
Dynamic Recovery Time	10 ms. at 98 % of the static value Pure Sinewave	
Admissible Overload	125% for 10 min., 150% for 60 s	
Admissible Crest Factor	3.2:1	2.8:1
Admissible Power factor	0.7 inductive to 0.7 capacitive	
Imbalance Output Voltage @ 100% Unbalanced Load	<1%	
Current Limit	High overload, short-circuit: RMS Voltage Limit ; High Crest-Factor current: Peak Voltage Limit	

Static Bypass

Type	Solid State
Voltage	3x400V (3Ph + N)
Frequency	50/60 Hz
Activation Criterion	Microprocessor Control
Transfer Time	Zero
Admissible Overload	400% for 10sec.
Transfer to Bypass	Immediate, for overloads above 150%
Retransfer	Automatic after alarm clear

AC Input & Output Connectors

AC Input Connector	Terminal
AC Output Connector	Terminal

Standards

IEC 62040-1 (safety)	Yes
IEC-62040-2 (EMC)	Yes
CE	Yes

Maintenance Bypass

Type		Without Interruption	
Voltage		3x400V (3Ph + N)	
Frequency		50/60 Hz	
Overall Efficiency (Line Mode)	92.5%	93%	94%

Physical dimensions

Long-Run	**Dimension (mm)**	805 (D) x 590 (W) x 1320 (H)	805 (D) x 590 (W) x 1320 (H)	805 (D) x 590 (W) x 1320 (H)
Model	**Net Weight (kgs)**	180	210	230

Induspower Series Backup Time Table

Induspower 40.0 kVA - 62 Batteries, Battery Voltage 744V, Charging Current 0,2C

External Battery Type	Sets	100% Full Load (in min.)	75% Load (in min.)
17 Ah (CSB GP12170)	1	8,5	14,1
	2	28,2	41,1
	3	49	71
26 Ah (CSB GP12260)	1	16,7	24,5
	2	42,5	60,9
	3	70,9	98,5
40 Ah (CSB GP12400)	1	23,9	35,2
	2	60,9	86,8
	3	102,3	145,8
65 Ah (CSB GP12650)	1	40,4	61,2
	2	114	172,7
	3	204	288
100 Ah (CSB GP121000)	1	75,5	115
	2	210	293
	3	347	489

Induspower 60.0 kVA - 62 Batteries, Battery Voltage 744V, Charging Current 0,2C

External Battery Type	Sets	100% Full Load (in min.)	75% Load (in min.)
	1	9,4	14
26 Ah (CSB GP12260)	2	24,9	36
	3	42,6	61
	1	13,2	19,8
40 Ah (CSB GP12400)	2	35,8	51,6
	3	61	87
	1	22	33,4
65 Ah (CSB GP12650)	2	62,3	94,4
	3	114,4	174,3
	1	42,8	62,5
100 Ah (CSB GP121000)	2	117	180
	3	211	297

Induspower 80.0 kVA - 62 Batteries, Battery Voltage 744V, Charging Current 0,2C

External Battery Type	Sets	100% Full Load (in min.)	75% Load (in min.)
	1	6	9,4
26 Ah (CSB GP12260)	2	16,9	24,7
	3	29,6	42,3
	1	8,5	13,1
40 Ah (CSB GP12400)	2	24,1	35,6
	3	42,1	60,6
	1	14,5	22
65 Ah (CSB GP12650)	2	40,8	61,8
	3	75	113,
	1	30,4	42,6
100 Ah (CSB GP121000)	2	76,3	116
	3	142	210